

ATTACHMENT 3

PREPAREDNESS AND PREVENTION MEASURES

3-1 Design and Operation of Facility

The facility shall be designed, constructed, maintained, and operated to minimize the possibility of a fire, explosion, or any unplanned sudden or nonsudden discharge of hazardous waste or hazardous waste constituents to air, soil, groundwater, or surface water which could threaten human health or the environment.

3-2 Equipment Requirements [40 CFR 264.32 and 270.14(b); R315-8-3.3 and 3-5(b)]

3-2(1) Internal Communications [40 CFR 264.32(a); R315-8-3.3(a)]

Internal communication and alarm signals for personnel working in the operations trailer and in Building 4553 will be achieved primarily by voice communication and audible and visual alarms. The operations trailer will be completely enclosed in Building 4553, and the utility trailer will be located just outside of the same building. Two-way radios or telephones will be used for communication or warnings between employees working outside of the operations trailer but inside Building 4553. The manual evacuation alarms are located inside the operations trailer and in Building 4553.

Table 3-1. Building 4553 and Rapid Response System Site Operations Emergency Equipment

Equipment	Capability	Quantity	Equipment Location
Fire Trucks	Pumper <ul style="list-style-type: none"> 750 gallons per minute 	1	Fire Station (Building 5010)
	Brush Truck <ul style="list-style-type: none"> 200 gallon capacity 60 gallons per minute 	1	Fire Station (Building 5010)
	Equipment Truck <ul style="list-style-type: none"> 1/2 ton 	1	Fire Station (Building 5010)
	Crash Truck <ul style="list-style-type: none"> Foam, dry chemical water capability 	1	Fire Station (Building 5010)

Equipment	Capability	Quantity	Equipment Location
Ambulance	<ul style="list-style-type: none"> Emergency personnel, medical assistance, and evacuation 	1 1	CAMDS Site Fire Station (Building 5010)
Bulldozer	<ul style="list-style-type: none"> Brushfire control, spill cleanup, diking, grading 	1	Building 5134
Loader	Front end, scoop type <ul style="list-style-type: none"> 18 cubic yard capacity spill cleanup 	1	Building 5134
Backhoe	Wheel-type <ul style="list-style-type: none"> Ditch digging, excavation 	1	Building 5134
Decon trucks	M-12 decon apparatus <ul style="list-style-type: none"> 300 gal capacity 	5	On call, TOCDF, CAMDS, and Area 10
Aid trucks	First aid/cleanup Equipment <ul style="list-style-type: none"> protective clothing blankets first aid kit visqueen slurry can buckets mops shovels 	5	On call, TOCDF, CAMDS, and Area 10
Hand tools	Small spill cleanup <ul style="list-style-type: none"> shovels brooms mops 	As required	Building 4553
Fire extinguisher	<ul style="list-style-type: none"> Handheld 	12	Building 4553, Operations Trailer, Administration Trailer, Operations Office, Northeast Ventilated Vault, Emergency Personnel Decontamination Station, Utility Trailer, and RRS Analytical Platform
Safety showers	<ul style="list-style-type: none"> Personnel Decontamination 	7	Building 4553
Eyewash stations	<ul style="list-style-type: none"> Eye protection 	9	Building 4553, Emergency personnel decontamination station, and Operations trailer

Equipment	Capability	Quantity	Equipment Location
Personal Protective Equipment	• Personnel protection	As required	Emergency personnel decontamination station
Spill Kit	• Hazardous Waste Cleanup	2	Building 4553, RRS operations area (2)
First Aid Kit	• First aid	2	Administration Trailer and EPDS

Audible and visual alarms for chemical agents or industrial chemicals will be provided by MINICAMS® and will be used to monitor the workspace inside the Rapid Response System operations trailer, between the filter elements of the carbon filter system, and, if required, the glovebox and filter exhaust on a near real-time basis.

The MINICAMS® monitoring the workspace inside the operations trailer and between the filter elements of the carbon filter system will be set to alarm at ~~70~~ 20 percent of the time-weighted average hazard level for mustard (H), distilled sulfur mustard (HD), nitrogen mustard (HN-1, HN-3), ~~lewisite (L)~~, cyanogen chloride (CK), phosgene (CG), chloropicrin (PS), and chloroform, and 50 percent for lewisite (L).

An intercom system will be used for communications between the glovebox operators and the CAIS loading area outside the operations trailer and the waste containerization system drum doors. This intercom system can be used to notify glovebox operators of an emergency situation at the CAIS loading area or the waste containerization system.

In the event of an emergency within the operations trailer or Building 4553, personnel will be notified by radio or voice communication. They will call the DCD Emergency Operations Center by telephone to alert any necessary outside agencies.

3-2a(2) External Communications [40 CFR 264.32(b); R315-8-3.3(b)]

All personnel who work in the Rapid Response System area, including those working inside and outside of the operations trailers, will be required to be in direct voice contact with persons having a two-way radio immediately available for summoning external assistance in an emergency. Telephones (land-line and cellular) will also be available for that purpose.

3-2a(3) Emergency Equipment [40 CFR 264.32(c); R315-8-3.3(c)]

Equipment for spill control, personal protection, decontamination, monitoring and surveying, and fire control will be available at Building 4553 to respond to emergencies. Table 3-1 describes the emergency equipment available at DCD and specific Rapid Response System emergency

equipment.

3-2a(4) Water for Fire Control [40 CFR 264.32(d); R315-8-3.3(d)]

The primary mechanism for fire control during Rapid Response System operations will be the fire extinguishers. However, if water is needed for fire control, a fire hydrant is located within 50 feet of Building 4553; providing 290 gallons per minute at 75 pounds per square inch static pressure. Also available at DCD Fire Station, Building S-10, are a 750-gallon-per-minute pumper truck, a brush truck with 200 gallon capacity, and a 60-gallon-per-minute pump. Building 4553 is equipped with a sprinkler system.

3-2b Aisle Space Requirement [40 CFR 264.35; R315-8-3.6]

The Rapid Response System operations trailer has been designed so that sufficient aisle space is provided to allow for the unobstructed movement of personnel, fire protection, spill control equipment, and decontamination equipment in the event of an emergency. Some of the Rapid Response System operations trailer equipment is also accessible from the outside of the trailer.